

BEST AVAILABLE COPY

PATENT SPECIFICATION

(11)

1225 625

DRAWINGS ATTACHED

- (21) Application No. 29298/67 (22) Filed 26 June 1967
(23) Complete Specification filed 26 June 1968
(45) Complete Specification published 17 March 1971
(51) International Classification B 65 d 15/16
(52) Index at acceptance
B8D 1A1 1B1 1B2 1E 2B 7M 7PY
(72) Inventor VICTOR SAMUEL BAILEY



(54) IMPROVEMENTS IN CONTAINERS FOR LIQUIDS

DOG

(71) We, GRUNDY (TEDDINGTON) LIMITED, a British Company of Somerset Works, Elmtree Road, Teddington, Middlesex, do hereby declare the invention, for which we pray that a patent may be granted to us, and the method by which it is to be performed, to be particularly described in and by the following statement:

This invention relates to a liquid container, and particularly to a liquid container made from metal, for example from an aluminium alloy or from stainless steel such as is used for containing a beverage such as beer.

According to this invention, there is provided a liquid container comprising a metal, cylindrical, hollow body having end walls and an outer jacket of synthetic plastics material in intimate engagement with the cylindrical surface of the hollow body and extending beyond both end walls.

An advantage of the container of this invention is that the portions of the jacket extending beyond the end walls of the hollow body constitute the end rings normally provided on liquid containers, so that the hollow body itself need not be formed with end rings or have separately formed end rings mounted thereon. This enables the hollow body to be formed from a simple cylindrical metal tube.

Further advantages are that the jacket provides heat insulation for the hollow body, and that the container is relatively quiet to handle compared with a normal metal container.

The use of a synthetic plastics material jacket enables the jacket to be coloured and thus a plurality of hollow bodies can be provided with differently coloured jackets as a means of coding.

The jacket can be formed of a plurality of parts secured together.

Otherwise the jacket can be in one piece and can be extruded over the hollow body.

If desired the jacket can include metal reinforcing inserts.

One embodiment of a liquid container according to this invention will now be described.

[Price 25p]

cribed by way of example with reference to the drawing which is a diagrammatic sectional side view of the container.

As shown in the drawing the container comprises a cylindrical hollow body 10 of metal having outwardly dished end walls. A bung hole 14 is provided in one of the end walls of the hollow body 10. A synthetic plastics material jacket formed of two parts 11 and 11a is provided in intimate engagement with the outer cylindrical surface of the hollow body 10, the two parts 11 and 11a being secured together by welding. Each part 11 or 11a of the jacket is formed with an upstanding circumferential annular rib 12 or 12a which constitutes a rolling ring for the container. The jacket has a portion 13 or 13a extending beyond each of the end walls of the hollow body 10 to constitute an end ring for the container. The portion 13 of the jacket extends beyond the free end of the bung hole 14 to provide protection therefor. As can be seen from the drawing the jacket engages over a peripheral portion of each end wall of the hollow body 10 to position the jacket relative to the hollow body 10.

Although not shown in the drawing, the jacket may be provided with hand-hold apertures, and the hollow body 10 may be provided with a drain hole or holes.

WHAT WE CLAIM IS:—

1. A liquid container comprising a metal, cylindrical hollow body having end walls and an outer jacket of synthetic plastics material in intimate engagement with the cylindrical surface of the hollow body and extending beyond both end walls.

2. A container as claimed in Claim 1 in which the jacket is formed of a plurality of parts secured together.

3. A container as claimed in Claim 2, in which the jacket is formed of two parts welded together.

4. A container as claimed in any preceding claim, in which the jacket engages over a peripheral portion of each end wall.

5. A container as claimed in any preceding

50

55

60

65

70

75

80

85

90

95

claim, in which the jacket is formed with a plurality of upstanding circumferential annular ribs.

- 5 6. A container as claimed in any preceding claim, in which the jacket includes metal reinforcing inserts.

7. A liquid container substantially as hereinbefore described with reference to and as illustrated by the drawing.

- 10 8. A method of making a container as

claimed in Claim 1, including the step of extruding the jacket over the hollow body.

KINGS PATENT AGENCY LIMITED,
By B. T. KING, A.I.Mech.E.,
Director,

Registered Patent Agent,
146a, Queen Victoria Street,
London, E.C.4.

Agents for the Applicants.

Printed for Her Majesty's Stationery Office, by the Courier Press, Leamington Spa, 1971.
Published by The Patent Office, 25 Southampton Buildings, London, WC2A 1AY, from
which copies may be obtained.

the step of
ollow body.

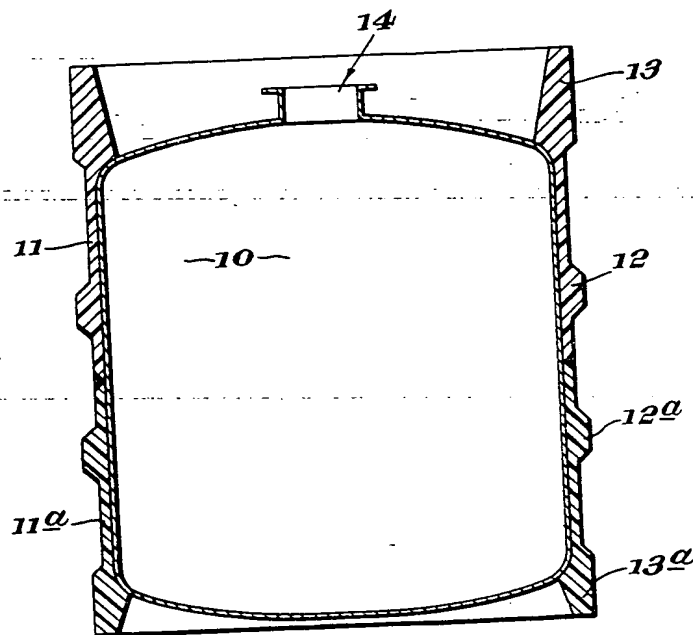
LIMITED,
h.E.,
Director,
nt,
street,
nts.
pa, 1971.
, from

1225

COMPLETE SPECIFICATION

1 SHEET

This drawing is a reproduction of
the Original on a reduced scale



THIS PAGE BLANK (USPTO)

**This Page is Inserted by IFW Indexing and Scanning
Operations and is not part of the Official Record**

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☒ **BLACK BORDERS**
- ☐ **IMAGE CUT OFF AT TOP, BOTTOM OR SIDES**
- ☒ **FADED TEXT OR DRAWING**
- ☒ **BLURRED OR ILLEGIBLE TEXT OR DRAWING**
- ☒ **SKEWED/SLANTED IMAGES**
- ☒ **COLOR OR BLACK AND WHITE PHOTOGRAPHS**
- ☐ **GRAY SCALE DOCUMENTS**
- ☐ **LINES OR MARKS ON ORIGINAL DOCUMENT**
- ☐ **REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY**
- ☐ **OTHER:** _____

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.

THIS PAGE BLANK (USPTO)